# Appendix: Comprehensive List of NETN Vital Signs

Comprehensive list of NETN vital signs showing the average score based on pre-workshop ranking.  Vital signs were categorized as follows; high priority = 10-12, medium priority = 8-10, and low priority = < 8.

| Category | Potential Vital Sign | Average Score (max = 12) |
|---|---|---|
| Climate | Basic climate | 9.8 |
| Disturbance | Disturbance regime: Landscape-scale | 9.5 |
| | Disturbance Regime: Drought | 6.8 |
| | Disturbance Regime: Fire | 8.8 |
| | Disturbance Regime: Flood | 7.5 |
| | Disturbance Regime: Storm | 6.5 |
| | Disturbance Regime: Wind events | 6.3 |
| Hydrology/Geomorphology | Channel morphology | 8.5 |
| | Groundwater | 6.8 |
| | Hydroperiod | 9.7 |
| | Lake morphometry | 9.0 |
| | Relative surface elevation | 10.5 |
| | Shoreline erosion | 8.5 |
| | Spring/seep distribution | 7.0 |
| | Spring/seep duration/seasonality/volume | 8.0 |
| | Streamflow | 10 |
| | Surface water level | 9.7 |
| | Tidal patterns | 9.0 |
| | Water level | 11.0 |
| Abiotic Condition | Stream alkalinity/ANC | 10.0 |
| | Water - Conductivity | 11.5 |
| | Water - Dissolved oxygen | 12.0 |
| | Water - pH | 12.0 |
| | Riparian shading | 9.5 |
| | Sediment redox potential | 6.5 |
| | Soil aggregate stability | 8.5 |
| | Soil compaction | 8.3 |
| | Substrate composition | 9.0 |
| | Water - Total dissolved ions | 9.0 |
| | Water - Total organic carbon | 7.5 |
| | Water - Temperature | 12.0 |
| | Water - Clarity | 11.5 |
| Biotic Condition | Algal biomass | 11.5 |
| | Amphibians | 9.0 |
| | Aquatic Vegetation | 11.0 |
| | Canopy species composition | 10.7 |
| | Coarse woody debris | 9.0 |
| | Fish presence | 10.5 |
| | Focal taxa - Alpine zone | 8.7 |
| | Focal taxa - Mudflat | 8.0 |

| Category | Potential Vital Sign | Average Score (max = 12) |
|---|---|---|
| Biotic Condition | Focal taxa - Rocky intertidal | 8.0 |
| | Focal taxa - Rocky shore | 8.7 |
| | Focal taxa -Open uplands | 8.7 |
| | Focal taxa - Forest interior breeding birds | 8.7 |
| | Live legacy trees | 9.3 |
| | Ecosystem nitrogen loss | 9.3 |
| | Focal taxa – Aquatic macroinvertebrates | 9.0 |
| | Predator composition | 8.3 |
| | Focal species - Red backed salamanders in forests | 8.7 |
| | Shrub/herb composition | 9.3 |
| | Snags | 9.3 |
| | Focal taxa - Soil biota in forests | 6.7 |
| | Focal taxa - Soil biota in plantations | 6.0 |
| | Species composition | 10.0 |
| | Species migration - climate | 7.7 |
| | Focal taxa - Spring ephemerals | 8.3 |
| | Stand biomass | 9.7 |
| | Stand structure | 9.7 |
| | Tree health/vigor | 8.7 |
| | Tree mortality | 10.3 |
| | Tree sapling regeneration | 10.3 |
| | Vegetation – regeneration | 8.5 |
| | Vegetation condition | 10.0 |
| | Focal species - White tailed deer | 9.7 |
| Ecological Process | Forest gap dynamics | 6.7 |
| | Nutrient cycling | 10.3 |
| | Phenology | 8.7 |
| | Productivity | 8.7 |
| | Soil respiration | 6.0 |
| | Trophic dynamics | 7.0 |
| Focal Park Resource | Focal taxa - Amphibians in vernal pools | 10.3 |
| | Focal taxa - Bats | 6.7 |
| | Focal species - Beavers | 10.0 |
| | Focal taxa - Breeding birds | 9.3 |
| | Dark night sky | 6.3 |
| | Focal taxa - Fish | 7.5 |
| | Focal taxa - Grassland birds in fields | 8.3 |
| | Focal taxa - Harbor seals | 7.7 |
| | Mandated Species | 8.0 |
| | Focal taxa - Obligate lepidopterans/odonates in fields | 7.3 |
| | Rare community | 9.0 |
| | Rare species | 8.5 |
| | Viewshed | 7.0 |
| | Visibility | 8.0 |
| Landscape Context | Buffer - aquatic | 10.5 |
| | Patch edge type | 10.7 |
| | Landcover - ecological system type | 9.7 |

| Category | Potential Vital Sign | Average Score (max = 12) |
|---|---|---|
| | Landcover - fragmentation | 8.7 |
| | Landcover - patch size | 9.3 |
| | Landcover - proximity | 8.5 |
| | Landcover - succession | 8.7 |
| | Landuse | 11.0 |
| | Minimum dynamic area | 7.3 |
| | Buffer - Natural vegetation | 9.0 |
| | Park boundary | 9.0 |
| | Patch connectivity | 9.3 |
| | Patch size distribution | 9.3 |
| | Vernal pool density | 9.0 |
| | Buffer - wetland | 11.3 |
| Management | Park infrastructure | 9.0 |
| | Pasture management | 10.7 |
| | Trail construction & maintenance | 9.0 |
| | Wetland restoration success | 8.7 |
| Stressor | Acid stress | 10.7 |
| | Acidic deposition | 10.0 |
| | Air contaminants | 9.3 |
| | Beaver engineering | 9.0 |
| | Bioaccumulation (Hg, Pb, PCB, Cd, Zn) | 9.0 |
| | Contaminant spills | 9.0 |
| | Contamination | 9.5 |
| | Invasive exotic earthworms | 9.3 |
| | Invasive exotic insect pests & diseases | 8.7 |
| | Feral animals/free-ranging pets | 8.0 |
| | Fertilizer use | 9.0 |
| | Fire suppression | 9.5 |
| | Fishing (and shellfish) | 8.5 |
| | Forest management | 11.3 |
| | Heavy metal deposition | 10.0 |
| | Herbicide/pesticide use | 9.0 |
| | Herbivore composition | 7.7 |
| | Hunting | 9.0 |
| | Hydrologic alteration | 9.5 |
| | Illegal taking | 6.7 |
| | Invasive exotic aquatic vegetation | 10.3 |
| | Invasive exotic fish | 9.5 |
| | Invasive exotic plant species | 10.3 |
| | Invasive exotic terrestrial plants | 10.7 |
| | Invasive exotics - other | 10.3 |
| | Landscape runoff | 9.3 |
| | Livestock | 9.0 |
| | Metal contaminants | 8.5 |
| | Aquatic microorganisms | 10.0 |
| | Noise | 6.0 |
| | Ozone pollution | 9.0 |

| Category | Potential Vital Sign | Average Score (max = 12) |
|---|---|---|
| Stressor | Particulates | 8.0 |
| | Road impacts | 10.0 |
| | Road network | 11.0 |
| | Road runoff | 9.0 |
| | Roadkill | 7.7 |
| | Sea level rise | 7.8 |
| | Septic systems | 9.0 |
| | Social trail formation | 7.7 |
| | Soil erosion | 10.0 |
| | Trampling disturbance | 8.3 |
| | UVB | 8.0 |
| | Visitor use | 8.5 |
| | Aquatic volatile organic compounds | 8.0 |
| | Water withdrawal | 8.8 |
| | White tailed deer herbivory | 10.0 |